

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of

KOIKE et al

Serial No.: 09/546,227

Filed: April 10, 2000



Atty. Ref.: 461-62

Group: 1754

Examiner: E. Johnson

#12/UB  
4/5/2

For: A CERAMIC SUPPORT CAPABLE OF  
SUPPORTING A CATALYST, A CATALYST-  
CERAMIC BODY AND PROCESSES FOR  
PRODUCING SAME

\* \* \* \* \*

Honorable Commissioner of  
Patents and Trademarks  
Washington, DC 20231

RECEIVED  
APR 03 2002  
TC 1700

Sir:

**REVOCATION, NEW POWER OF ATTORNEY  
AND CHANGE OF ADDRESS**

Assignee, the owner of an undivided one-half (1/2) interest of the above-identified patent, hereby appoints Larry S. Nixon, 25640; Arthur R. Crawford, 25327; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffrey H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29366; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331; Frank P. Presta, 19828; Joseph S. Presta, 35329; Joseph A. Rhoa, 37515; Raymond Y. Mah, 41426; Chris Comuntzis, 31097; Gary T. Tanigawa, 43180 of the firm of Nixon & Vanderhye P.C., 1100 North Glebe Road, 8<sup>th</sup> Floor, Arlington, VA 22201-4714, telephone (703) 816-4000, facsimile (703) 816-4100, to transact all business in the Patent and Trademark Office in connection therewith. Every attorney at law associated with that law firm is hereby authorized to sign any paper or conduct any business on its behalf. Assignee hereby revokes all powers of attorney previously granted with respect to the subject patent.

Certificate Under 37 C.F.R. §3.73(b)

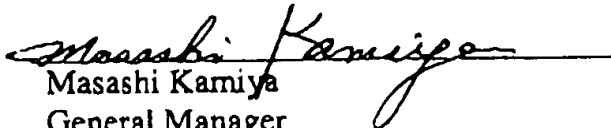
DENSO Corporation, a corporation having a place of business at 1-1 Showa-cho, Kariya-city, Aichi-pref. 448-8661 Japan states that it is the assignee of the an undivided one-half (1/2) interest of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors to the aforesaid assignee, a copy of the assignment being attached and/or recorded at the United States Patent Office on August 9, 2000 at Reel 010981, Frame 0317.

The undersigned (whose title is typed below) is empowered to sign this statement on behalf of DENSO Corporation.

All correspondence regarding the above-identified patent is to be sent to:

Larry S. Nixon  
Nixon & Vanderhye P.C.  
1100 North Glebe Road, 8<sup>th</sup> Floor  
Arlington, VA 22201  
Telephone: 703 816 4000  
Facsimile: 703 816 4100

DENSO CORPORATION

By:   
Name: Masashi Kamiya  
Title: General Manager  
Intellectual Property Department

Date: March 29, 2002



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SEPTEMBER 26, 2000

PTAS

PILLSBURY MADISON & SUTRO LLP  
TIMOTHY J KLIMA / GLENN T. BARRETT  
INTELLECTUAL PROPERTY GROUP  
1100 NEW YORK AVENUE, NW, NINTH FLOOR  
WASHINGTON, DC 20005-3918



UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/09/2000

REEL/FRAME: 010981/0317  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
KOIKE, KAZUHIKO

DOC DATE: 04/03/2000

ASSIGNOR:  
NAKANISHI, TOMOHIKO

DOC DATE: 04/03/2000

ASSIGNOR:  
UEDA, TAKESHI

DOC DATE: 04/03/2000

ASSIGNOR:  
TANAKA, MASAKAZU

DOC DATE: 04/03/2000

ASSIGNEE:  
NIPPON SOKEN, INC.  
14, IWAYA, SHIMOHASUMI-CHO, NISHIO-  
SHI  
AICHI, JAPAN

RECEIVED  
APR 03 2002  
TC 1700

2000

ASSIGNEE:  
DENSO CORPORATION  
1-1 SHOWA-CHO, KARIYA-CITY  
AICHI-PREF. 448-8661, JAPAN

SERIAL NUMBER: 09546227  
PATENT NUMBER:

FILING DATE: 04/10/2000  
ISSUE DATE:

PEARLENE FOSTER, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

08-14-2000

BOX ASSIGNMENTS



101430756

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MAR 2 9 2002  
PATENT & TRADEMARK OFFICETO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:  
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. KAZUHIKO KOIKE  
3. TAKESHI UEDA  
5.  
7.2. TOMOHIKO NAKANISHI  
4. MASAKAZU TANAKA  
6.  
8.ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: (1) NIPPON SOKEN, INC., and  
(2) DENSO CORPORATIONADDRESS: (1) 14, Iwaya, Shimohasumi-cho, Nishio-shi., Aichi, Japan, and  
(2) 1-1 Showa-cho, Kariya-City, Aichi-Pref., 448-8661, JapanADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)
☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST  
☐ ORIGINAL ☐ FACSIMILE/PHOTOCOPY  
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION  
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: April 3, 2000 (all)

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) April 3, 2000 (all)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☐ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
09/546,227	268032				

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:Pillsbury Madison & Sutro LLP  
Intellectual Property Group  
1100 New York Avenue, NW  
Ninth Floor  
Washington, DC 20005-3918

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

PMS 268032

NDNJNDG468US

UNDER ORDER NO

11349

268032

MATTER NO.

CLIENT REF.

dup. sheet not required

CLIENT NO.

MATTER NO.

9. STATEMENT AND SIGNATURE.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Signature

Attorney: Timothy J Klima / Glenn T. Barrett

Reg. No. 34852 / 38705

Atty/Sec: TJK/GTB:emg

TEL: (202) 861-3662

Date: August 9, 2000

FAX: (202) 822-0944

10. Total number of pages including this  
cover sheet, attachments and document  
(do not file dup. Cover sheet)

2

FILE WITH PTO RETURN RECEIPT (PAT-103A)

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

(Insert  
ASSIGNEE's  
Name(s)  
Address(es))

1) NIPPON SOKEN, INC.

14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan

2) DENSO CORPORATION

1-1 SHOWA-CHO KARIYA-CITY AICHI-PREF. 448-8661 JAPAN

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of  
Invention)

A CERAMIC SUPPORT CAPABLE OF SUPPORTING A CATALYST,  
A CATALYST-CERAMIC BODY AND PROCESSES FOR PRODUCING SAME

relating to International Patent Application PCT/JP / and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date  
of execution  
of application,  
if not  
concurrent)

(a) executed on

(b) filed on April 10, 2000  
Serial No. 09 / 546,227

Cushman, Darby & Cushman, Intellectual Property  
of Pillsbury Madison & Surto LLP  
Washington D.C.) is hereby authorized to insert in (b) the specified  
data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1) Kazuhiko Koike  
(SIGNATURE)

Kazuhiko Koike  
(TYPE NAME)

April 3, 2000  
(DATE)

2) Tomohiko Nakanishi  
(SIGNATURE)

Tomohiko Nakanishi  
(TYPE NAME)

April 3, 2000  
(DATE)

3) Takeshi Ueda  
(SIGNATURE)

Takeshi Ueda  
(TYPE NAME)

April 3, 2000  
(DATE)

4) Masakazu Tanaka  
(SIGNATURE)

Masakazu Tanaka  
(TYPE NAME)

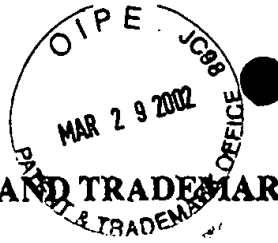
April 3, 2000  
(DATE)

5) \_\_\_\_\_  
(SIGNATURE)

(TYPE NAME)

(DATE)

6) \_\_\_\_\_



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Atty. Ref.: 461-62

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\* \* \* \* \*

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Patents and Trademarks  
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Certificate Under 37 C.F.R. §3.73(b)

Nippon Soken, Inc., a corporation having a place of business at 14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan states that it is the assignee of the an undivided one-half (1/2) interest of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors to the aforesaid assignee, a copy of the assignment being attached and/or recorded at the United States Patent Office on August 9, 2000 at Reel 010981, Frame 0317.

The undersigned (whose title is typed below) is empowered to sign this statement on behalf of Nippon Soken, Inc.

All correspondence regarding the above-identified patent is to be sent to:

Larry S. Nixon  
Nixon & Vanderhye P.C.  
1100 North Glebe Road, 8<sup>th</sup> Floor  
Arlington, VA 22201  
Telephone: 703 816 4000  
Facsimile: 703 816 4100

Nippon Soken, Inc.

By: Hideaki Sasaya  
Name: Hideaki Sasaya  
Title: Executive Senior Managing Director

Date: March 28 2002





UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SEPTEMBER 26, 2000

PTAS

PILLSBURY MADISON & SUTRO LLP  
TIMOTHY J KLIMA / GLENN T. BARRETT  
INTELLECTUAL PROPERTY GROUP  
1100 NEW YORK AVENUE, NW, NINTH FLOOR  
WASHINGTON, DC 20005-3918



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RECORDATION DATE: 08/09/2000

REEL/FRAME: 010981/0317  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
KOIKE, KAZUHIKO

DOC DATE: 04/03/2000

ASSIGNOR:  
NAKANISHI, TOMOHIKO

DOC DATE: 04/03/2000

ASSIGNOR:  
UEDA, TAKESHI

DOC DATE: 04/03/2000

ASSIGNOR:  
TANAKA, MASAKAZU

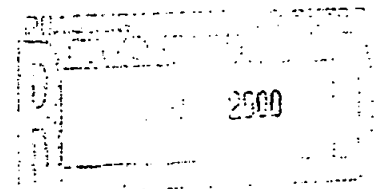
DOC DATE: 04/03/2000

ASSIGNEE:  
NIPPON SOKEN, INC.  
14, IWAYA, SHIMOHASUMI-CHO, NISHIO-  
SHI  
AICHI, JAPAN

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APR 03 2002

IC 1700



Q10981/0317 PAGE 2

ASSIGNEE:

DENSO CORPORATION  
1-1 SHOWA-CHO, KARIYA-CITY  
AICHI-PREF. 448-8661, JAPAN

SERIAL NUMBER: 09546227  
PATENT NUMBER:

FILING DATE: 04/10/2000  
ISSUE DATE:

PEARLENE FOSTER, PARALEGAL  
ASSIGNMENT DIVISION  
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08-14-2000

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## BOX ASSIGNMENTS

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TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:  
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. KAZUHIKO KOIKE  
3. TAKESHI UEDA

2. TOMOHIKO NAKANISHI  
4. MASAKAZU TANAKA

5.  
7. ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: (1) NIPPON SOKEN, INC., and  
(2) DENSO CORPORATION

ADDRESS: (1) 14, Iwaya, Shimohasumi-cho, Nishio-shi., Aichi, Japan, and  
(2) 1-1 Showa-cho, Kariya-City, Aichi-Pref., 448-8661, Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

## 3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST  
☐ ORIGINAL ☐ FACSIMILE/PHOTOCOPY  
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION  
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: April 3, 2000 (all)

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) April 3, 2000 (all)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☐ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
09/546,227	268032				

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:

Pillsbury Madison & Sutro LLP  
Intellectual Property Group  
1100 New York Avenue, NW  
Ninth Floor  
Washington, DC 20005-3918

6. NUMBER INVOLVED:  
APPLNS 1 + PATS 0 = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)  
ABOVE TOTAL x \$40 = \$40

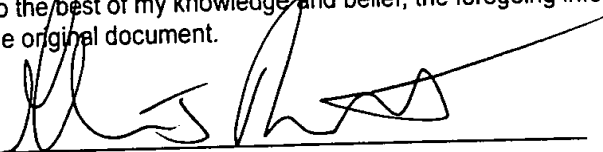
5.5 ATTY DKT:

PMS 268032 NDNJNDG468US  
MATTER NO. CLIENT REF.

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE  
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975  
UNDER ORDER NO 11349 268032  
dup. sheet not required CLIENT NO. MATTER NO.

## 9. STATEMENT AND SIGNATURE.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.



Signature

Attorney: Timothy J. Klima / Glenn T. Barrett

Reg. No. 34852 / 38705

Atty/Sec: TJK/GTB:emg

TEL: (202) 861-3662

Date: August 9, 2000

FAX: (202) 822-0944

10. Total number of pages including this  
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FILE WITH PTO RETURN RECEIPT (PAT-103A)

File: 5631-05  
Ref: 110.07-6402-05

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

(Insert  
ASSIGNEE's  
Name(s)  
Address(es))

1) NIPPON SOKEN, INC.  
14, Iwaya, Shimohasumi-cho, Nishio-shi, Aichi, Japan  
2) DENSO CORPORATION  
1-1 SHOWA-CHO KARIYA-CITY AICHI-PREF. 448-8661 JAPAN

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of  
Invention)

A CERAMIC SUPPORT CAPABLE OF SUPPORTING A CATALYST,  
A CATALYST-CERAMIC BODY AND PROCESSES FOR PRODUCING SAME

relating to International Patent Application PCT/JP \_\_\_\_\_/\_\_\_\_\_ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date  
of execution  
of application,  
if not  
concurrent)

(a) executed on \_\_\_\_\_: (Cushman, Darby & Cushman, Intellectual Property  
of Pillsbury Madison & Surto LLP  
(b) filed on April 10, 2000, Washington D.C.) is hereby authorized to insert in (b) the specified  
Serial No. 09 /546,227 data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1) <u>Kazuhiko Koike</u> (SIGNATURE)	<u>Kazuhiko Koike</u> (TYPE NAME)	<u>April 3, 2000</u> (DATE)
2) <u>Tomohiko Nakanishi</u> (SIGNATURE)	<u>Tomohiko Nakanishi</u> (TYPE NAME)	<u>April 3, 2000</u> (DATE)
3) <u>Takeshi Ueda</u> (SIGNATURE)	<u>Takeshi Ueda</u> (TYPE NAME)	<u>April 3, 2000</u> (DATE)
4) <u>Masakazu Tanaka</u> (SIGNATURE)	<u>Masakazu Tanaka</u> (TYPE NAME)	<u>April 3, 2000</u> (DATE)
5) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
6) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)